

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629_5 ~ C1216XT-20LXXK-MDEX-TCY-NLXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00629_5_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 9/20/2017
 [UPDATE] 3/9/2018
 [LUMCAT] C1216XT-20L-xxK-MD-EX-TCY-NL
 [LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
 [OTHER] Internal Reflector, Medium Beam
 [OTHER] No lens
 [OTHER] 20.1 Degree Beam Angle
 [OTHER] Aimed at 0 Degrees
 [LAMPCAT] N/A, 19mm LES
 [LAMP] N/A, 83 CRI
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] LEDXT lumen output is the same for all available CCT's
 [OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1914
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.34
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_5 ~ C1216XT-20LXXK-MDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6450	11855	16379
55	2269	2439	2643
65	1898	2096	2377
75	2282	2459	2626
85	2338	2747	3430

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	7254.196	7254.196	7254.196	7254.196	7254.196	7254.196	7254.196	7254.196	7254.196	7254.196
5	6153.100	6106.075	5926.251	5953.065	5976.371	6346.494	6312.562	6333.513	6202.849	6133.596
10	3602.959	3541.664	3534.943	3455.298	3473.818	3767.928	3789.543	3594.071	3616.498	3562.475
15	1542.952	1532.985	1627.591	1571.570	1550.123	1648.094	1706.468	1510.538	1556.218	1523.522
20	853.693	863.116	900.362	901.058	895.764	876.562	891.165	868.875	868.900	849.292
25	726.659	736.470	752.238	763.302	768.507	735.782	729.890	756.458	747.083	730.350
30	685.694	696.311	709.878	721.661	730.035	702.610	691.793	723.651	713.487	697.069
35	614.395	638.649	634.468	676.373	668.813	642.883	638.899	675.899	652.755	630.468
40	305.827	343.288	379.996	445.686	474.444	437.442	414.627	498.787	455.751	414.321
45	65.075	66.361	119.607	122.702	165.247	158.895	153.901	169.318	158.501	127.152
50	29.771	26.179	29.985	26.629	33.856	45.930	44.503	34.818	39.931	36.208
55	18.566	19.450	19.957	21.966	21.627	24.571	26.216	22.922	22.415	23.543
60	18.284	17.171	17.226	18.828	18.588	23.024	24.312	23.034	20.928	21.822
65	11.447	13.366	12.640	15.863	14.335	20.546	21.599	18.538	20.158	19.514
70	9.750	9.423	9.484	9.407	11.408	19.358	20.918	17.534	18.708	17.578
75	8.428	8.110	9.082	9.231	9.697	20.026	19.022	18.018	18.480	18.428
80	5.616	7.330	7.376	8.644	8.300	19.254	17.848	18.873	17.413	16.536
85	2.907	3.106	3.416	3.712	4.266	12.570	15.529	14.879	17.285	15.510
90	0.000	0.000	0.000	0.000	1.576	10.177	9.423	10.291	10.395	10.213
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	7254.196	7254.196	7254.196	7254.196	7254.196	7254.196	7254.196
5	5945.657	5925.198	5914.647	6311.454	6280.733	6216.204	6153.100
10	3534.843	3475.456	3451.518	3765.188	3788.362	3574.886	3602.959
15	1606.586	1509.229	1476.942	1647.078	1717.991	1447.591	1542.952
20	872.923	828.613	831.553	876.380	891.938	808.276	853.693
25	727.190	719.633	716.176	727.168	731.361	718.918	726.659
30	686.798	678.451	672.952	679.902	680.869	670.244	685.694
35	615.271	583.360	595.997	597.063	587.734	585.989	614.395
40	358.280	326.824	280.872	312.155	327.192	289.274	305.827
45	114.879	87.225	66.232	88.793	111.456	65.542	65.075

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50	33.584	35.838	36.841	35.201	34.908	34.294	29.771
55	23.833	21.843	22.621	22.405	22.126	18.905	18.566
60	19.702	20.427	21.587	18.298	17.579	18.729	18.284
65	17.379	18.609	19.367	16.696	13.276	12.199	11.447
70	17.856	15.777	17.114	9.410	12.021	8.573	9.750
75	17.847	16.058	16.264	9.637	9.446	8.300	8.428
80	18.879	17.540	18.200	7.901	8.384	7.056	5.616
85	16.113	14.779	13.037	3.309	3.952	2.528	2.907
90	10.642	9.204	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1015.58	N.A.	53.10
0-30	1365.17	N.A.	71.30
0-40	1728.03	N.A.	90.30
0-60	1871.92	N.A.	97.80
0-80	1902.8	N.A.	99.40
0-90	1912.53	N.A.	99.90
10-90	1404.73	N.A.	73.40
20-40	712.45	N.A.	37.20
20-50	834.24	N.A.	43.60
40-70	160.53	N.A.	8.40
60-80	30.88	N.A.	1.60
70-80	14.24	N.A.	0.70
80-90	9.72	N.A.	0.50
90-110	1.23	N.A.	0.10
90-120	1.23	N.A.	0.10
90-130	1.23	N.A.	0.10
90-150	1.23	N.A.	0.10
90-180	1.23	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	1913.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	507.79
10-20	507.79
20-30	349.59
30-40	362.86
40-50	121.79
50-60	22.10
60-70	16.64
70-80	14.24
80-90	9.72
90-100	1.23
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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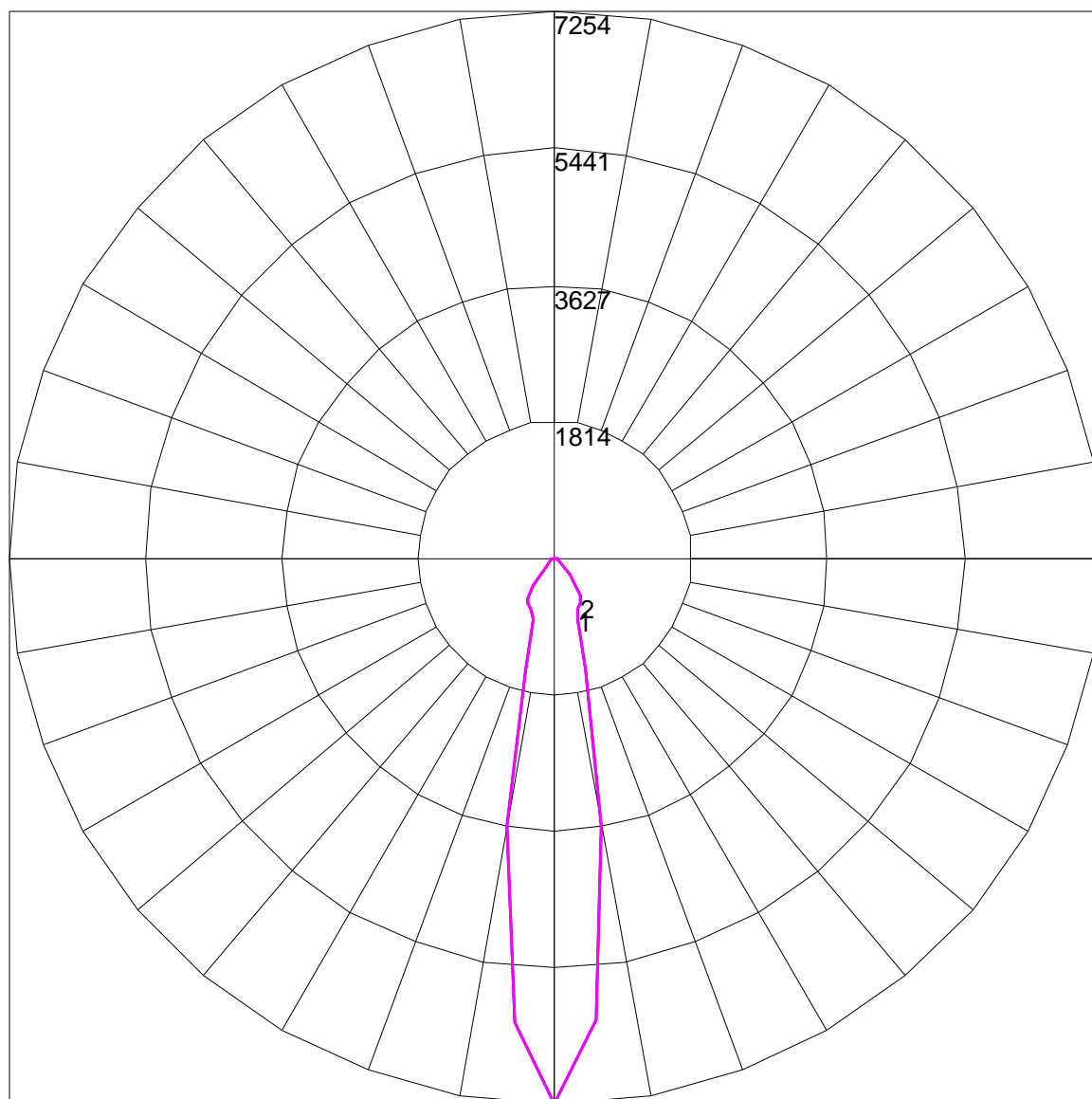
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	78	84	80	77	83	79	76	81	78	76	74
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70
7	87	79	73	70	86	78	73	69	77	72	69	76	72	69	75	71	68	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	62	61
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	66	63	60	59

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POLAR GRAPH



Maximum Candela = 7254.196 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)